

J. A. KENNEDY.
 PLATE AND HOT DISH LIFTER.
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913,015.

Patented Feb. 23, 1909.

Fig 1.

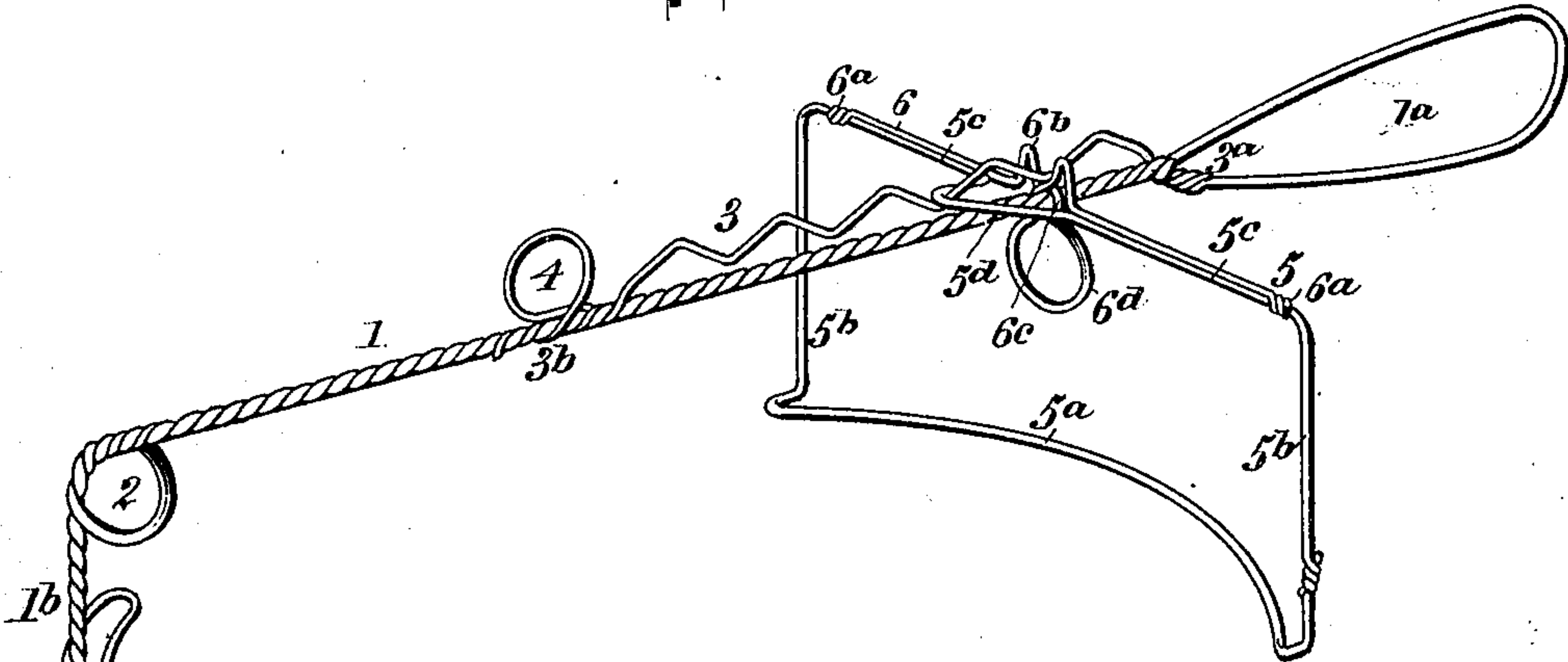


Fig 2.

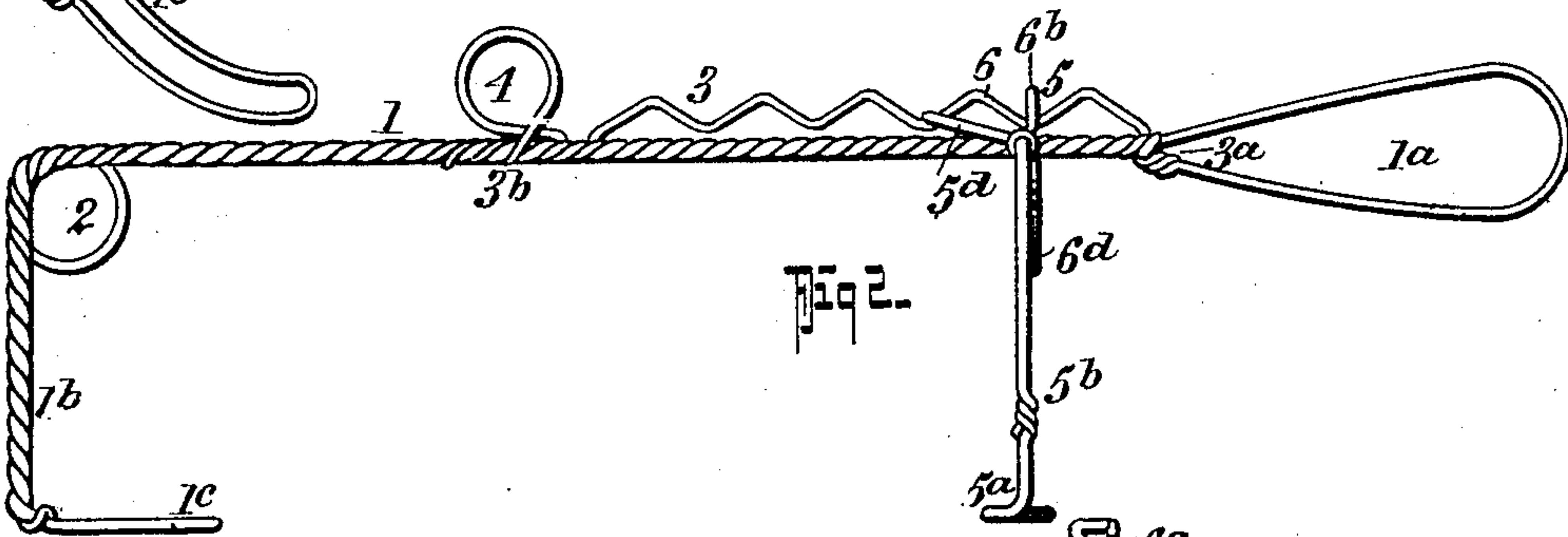
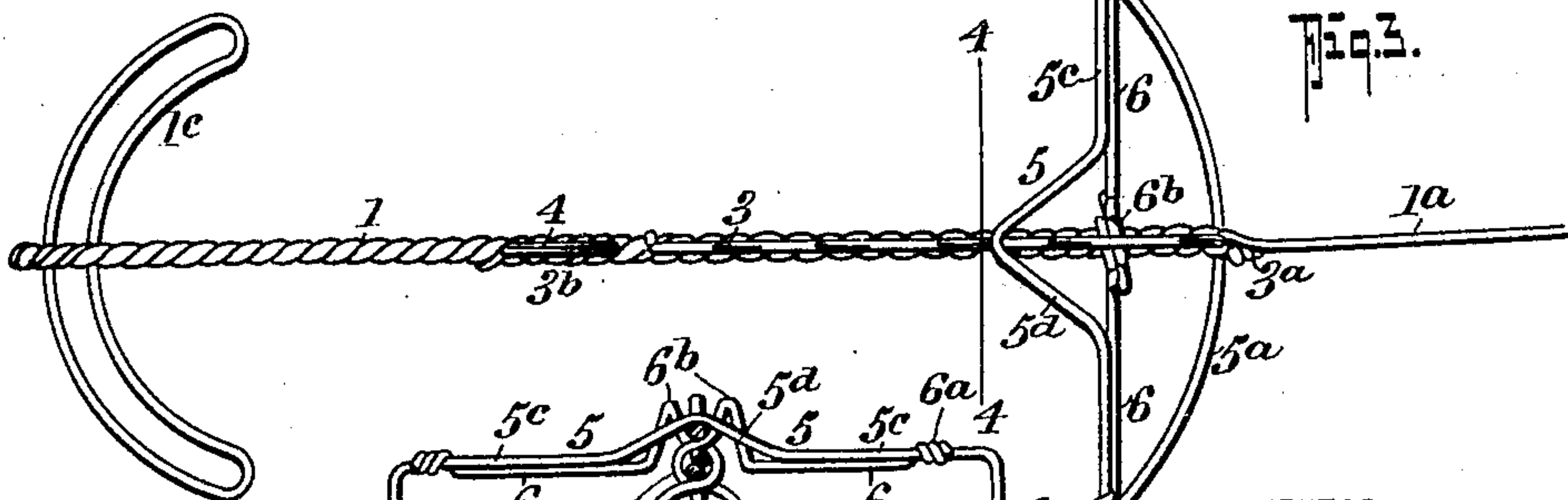


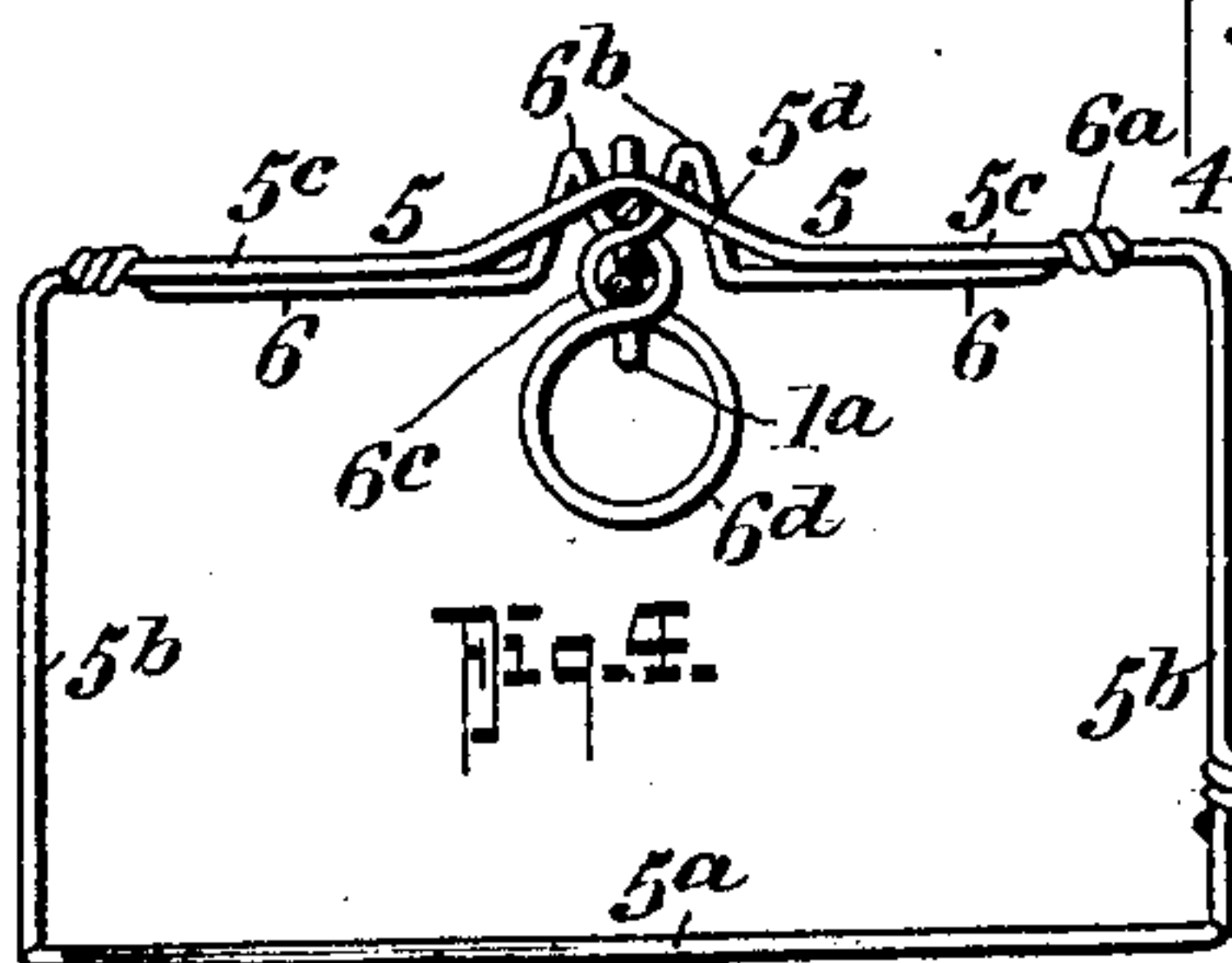
Fig 3.



WITNESSES:

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Fig 4.



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PLATE AND HOT-DISH LIFTER.

No. 913,015.

Specification of Letters Patent.

Patented Feb. 23, 1909.

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To all whom it may concern:

Be it known that I, JOHN A. KENNEDY, residing at Browning, in the county of Teton and State of Montana, have invented certain new and useful Improvements in Plate and Hot-Dish Lifters, of which the following is a specification.

My invention relates to certain new and useful improvements in plate lifters and the invention primarily has for its object to provide a plate lifter composed of wire of a very simple and effective construction which can be easily and cheaply manufactured and which will readily and effectively serve its intended purposes.

In its generic nature the invention embodies a twisted wire shank or beam formed with a handle loop and a relatively fixed plate engaging member, together with an adjustable plate engaging member carried by the beam and means coöperatively connecting the adjustable plate engaging member with the beam whereby the device may be adjusted to engage plates of varying sizes. Finger engaging loops are also provided at different places whereby an easy manipulation of the device may be had.

In its more subordinate nature the invention embodies certain novel features of construction, detailed arrangement and combination of parts, all of which will be first described in detail, then be specifically pointed out in the appended claims, and illustrated in the accompanying drawings, in which:

Figure 1, is a perspective view showing the application of my invention. Fig. 2, is a side elevation of my invention showing the parts adjusted for the largest size plate which the apparatus is designed to engage. Fig. 3, is a top plan view thereof. Fig. 4, is a sectional elevation on the line 4—4 of Fig. 3.

Referring now to the accompanying drawings, in which like letters and numerals of reference indicate like parts in all of the figures, 1 represents the beam member which consists of two strands of wire twisted together to form the shank proper and looped as at 1^a to form a handle member, the shank or beam 1 being bent downwardly at right angles as at 1^b and terminating in a single wire loop member 1^c bent into a quarter circle to form one of the plate engaging members.

A loop 2 of single wire is woven into the

double strand beam 1 at the angle formed between the beam proper 1 and the downwardly projecting shank portion 1^b giving the necessary spring and strength to the parts at this place.

3 designates a rack formed of a single wire strand and woven at one end 3^a into the double twisted wire 1 adjacent to the angle 1^a and at the other end the rack 3 is correspondingly woven into the beam as at 3^b. A finger engaging loop 4 is also woven into the beam and is adapted to be used in case the dish and its contents are too heavy to be lifted by one hand.

5 designates the swinging lift and plate engaging member formed of a single wire strand and bent at the bottom into a curved portion 5^a to form a plate engaging member, from which the upwardly projected parallel portions 5^b extend and are bent over to lie horizontally as at 5^c and terminate in a V-shaped loop 5^d to co-act with the rack 3 in a manner which will be presently apparent by reference to the drawings.

6 represents the coupling member that connects the member 5 with the beam 1 and the coupling member 6 consists of a single wire strand having its ends bent into eyes as at 6^a to engage the horizontal portion 5^c of the lift member 5 and form a fulcrum therefor, the member 5 swinging on the portion 5^c as an axis.

The coupling member 6 is centrally bent into a pair of upwardly extending loops 6^b arranged to extend up on each side of the rack 3, and the member 6 is further bent into a clamp loop 6^c and a finger engaging loop 6^d to coöperate with the beam 1 and be engaged by the operator respectively, the loop 6^d serving to give the required resiliency to the loop 6^c causing it to act as a clamp to engage the beam 1.

In the practical application of my invention the swinging frame 5 is moved into its proper adjusted position, and when this desired adjustment is made the operator using the right hand reaches the appliance into the oven until the swinging frame engages with the edge of the dish next to him, pushing forward until the member 1^c slips over the farther edge of the dish, then by an upward movement of the hand, or both hands, if desired, the dish is instantly conveyed to the desired place.

When set down, a forward movement of

the right hand slips the member 1^c up from the farther edge of the dish, when a backward movement of the hand swings the appliance clear of the plate and it is ready for
5 the next operation.

While the foregoing construction of parts is a preferred one, I desire it understood that slight changes in the detailed construction, combination and arrangement of parts
10 may be made without departing from the spirit of my invention or the scope of the appended claims.

What I claim is:—

1. An all wire plate lifter consisting of a
15 twisted wire beam formed with an integral hand engaging portion, and a plate engaging member, together with a swinging plate engaging frame, means for movably connecting said frame with said beam to be moved
20 along said beam, said last named means comprising a coupling member having bearings to receive said swinging frame, and a clamping portion for engaging said beam.

2. An all wire plate lifter consisting of a
25 twisted wire beam formed with an integral hand engaging portion, and a plate engaging member, together with a wire swinging plate engaging frame, means for adjustably connecting said frame with said beam, said
30 last named means comprising a wire coupling member having bearings to receive said swinging frame, a clamping portion for engaging said beam, and means carried by the beam and by the swinging frame respectively
35 for locking the swinging frame in its adjusted positions.

3. An all wire plate lifter consisting of a twisted wire beam formed with an integral hand engaging portion, and a plate engaging
40 member together with a swinging plate engaging frame, means for adjustably connecting said frame with said beam, said last named means comprising a coupling member having bearings to receive said swinging
45 frame, a clamping portion for engaging said beam, means carried by the beam and by the swinging frame respectively for locking the swinging frame in its adjusted positions, said
50 last named means comprising a rack secured to the beam and a member carried by the swinging frame for engaging the rack.

4. A twisted wire beam having an integrally formed wire handle portion, a downwardly projecting shank terminating in a
55 plate engaging member, combined with a

swinging plate engaging frame adjustably carried by the beam, said swinging frame comprising a wire member, and a wire coupling member for connecting the wire member with the beam and gripping the beam. 60

5. A twisted wire beam having an integrally formed wire handle portion, a downwardly projecting shank terminating in a plate engaging member, combined with a wire swinging plate engaging frame adjustably carried by the beam, said swinging frame comprising a wire member, a coupling member for connecting the wire member with the beam, a wire rack carried by the beam and a wire member formed with the swinging frame for coöperating with the rack to hold the swinging frame in its adjusted positions. 70

6. An all wire plate lifter comprising a twisted wire beam having an integrally formed wire handle portion, a downwardly projecting shank terminating in a plate engaging member, combined with a swinging plate engaging frame adjustably carried by the beam, said swinging frame comprising a wire member, a coupling member for connecting the wire member with the beam, a wire rack carried by the beam and a wire member formed with the swinging frame for coöperating with the rack to hold the swinging frame in its adjusted positions, and a finger engaging lifting loop carried by the beam. 80

7. A twisted wire beam having an integrally formed wire handle portion, a downwardly projecting shank terminating in a plate engaging member, combined with a swinging plate engaging frame adjustably carried by the beam, said swinging frame comprising a wire member, a coupling member for connecting the wire member with the beam, a wire rack carried by the beam and a wire member formed with the swinging frame for coöperating with the rack to hold the swinging frame to its adjusted positions, a finger engaging lifting loop carried by the beam, and a resilient loop member carried by the beam at the angle of juncture between the beam proper and the downwardly projecting shank. 100

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Witnesses:

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